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CHRONOLOGY OF ZELENOGORSK STATIC TEST FACILITY USSR

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CHRONOLOGY OF ZELENOGORSK STATIC TEST FACILITY, USSR

INTRODUCTION

This report presents the chronological development of the Zelenogorsk Static Test Facility near Zelenogorsk, USSR 25X1 25X1 formerly designated Zelenogorsk Unidentified Installation). The installation is rail and road served and is located 1.0 nautical miles (nm) north of Zelenogorsk at 60-13N 29-43E, near the north shore of the Gulf of Finland (Figures 1 and 2). As of 25X1 there were 26 principal structures within this secured facility.

It is appropriate here to mention the presence of an installation, the Primorsk Static Test Facility 25X1 on the shore of the Gulf of Finland some 26 nm west-northwest of Zelenogorsk. The proximity of the 2 facilities suggests either that they are possibly interrelated or that both may be part of the Leningrad-associated complex of rocket-engine/motor-test and production facilities.

The function or functions of the Zelenogorsk installation cannot yet be firmly identified because of the poor interpretability of available photography; however, the following activities are listed in order of probability:

1. Probable testing of small liquid-fueled rocket engines
2. Probable testing of liquid-fueled rocket engine components
3. Possible engine testing under simulated conditions
4. Possible testing of gas turbine or other nonrocket-type engines

A detailed chronology of the Zelenogorsk facility is presented in Table 1, and the chronology is also presented in a drawing of the layout of the facility, Figure 3, by means of color coding. Table 1 also contains functional and mensural data pertaining to the itemized structures. Chronological growth as indicated by

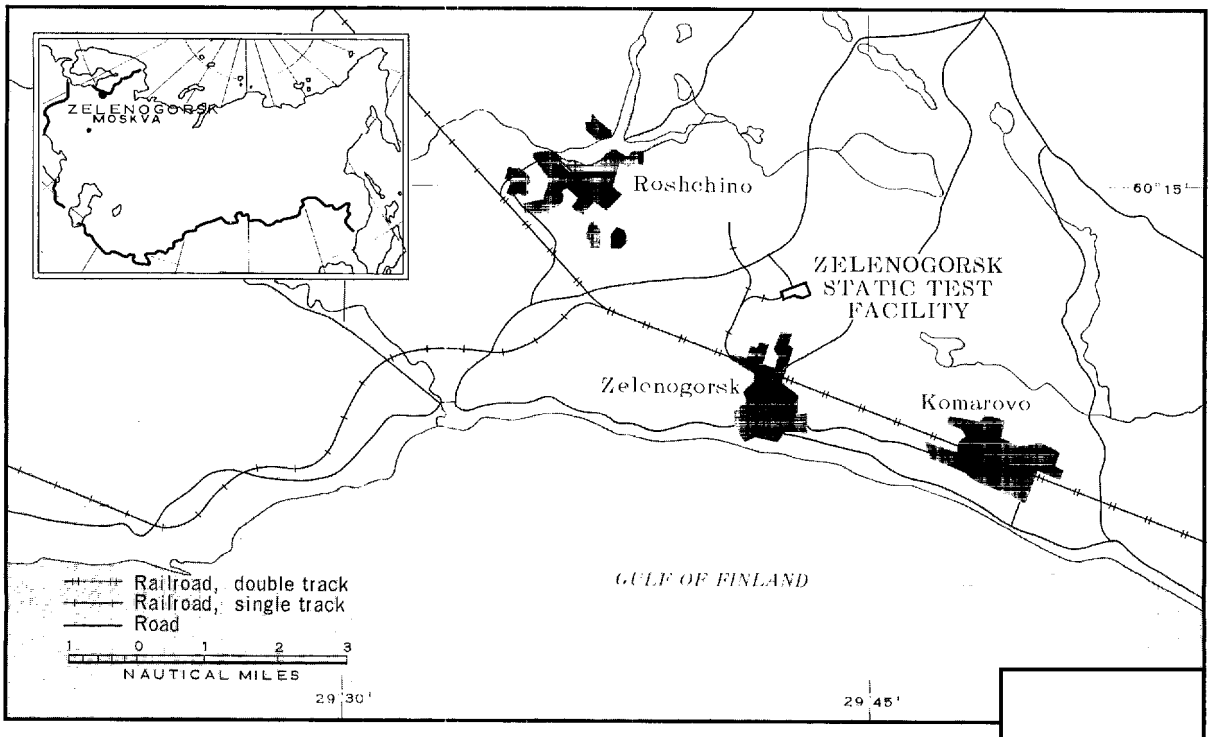

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FIGURE 1. LOCATION MAP.

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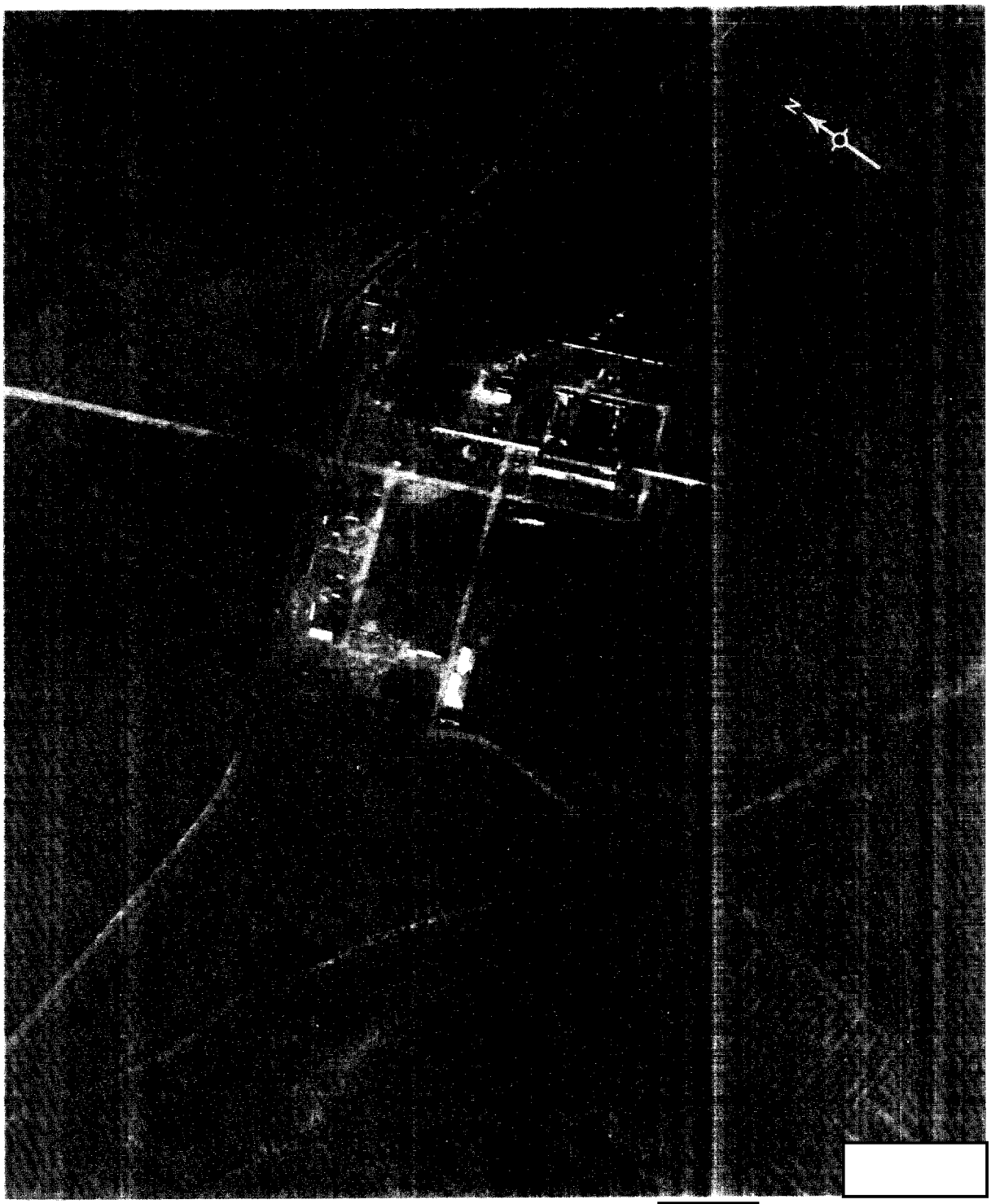

FIGURE 2 ZELENOGORSK STATIC TEST FACILITY

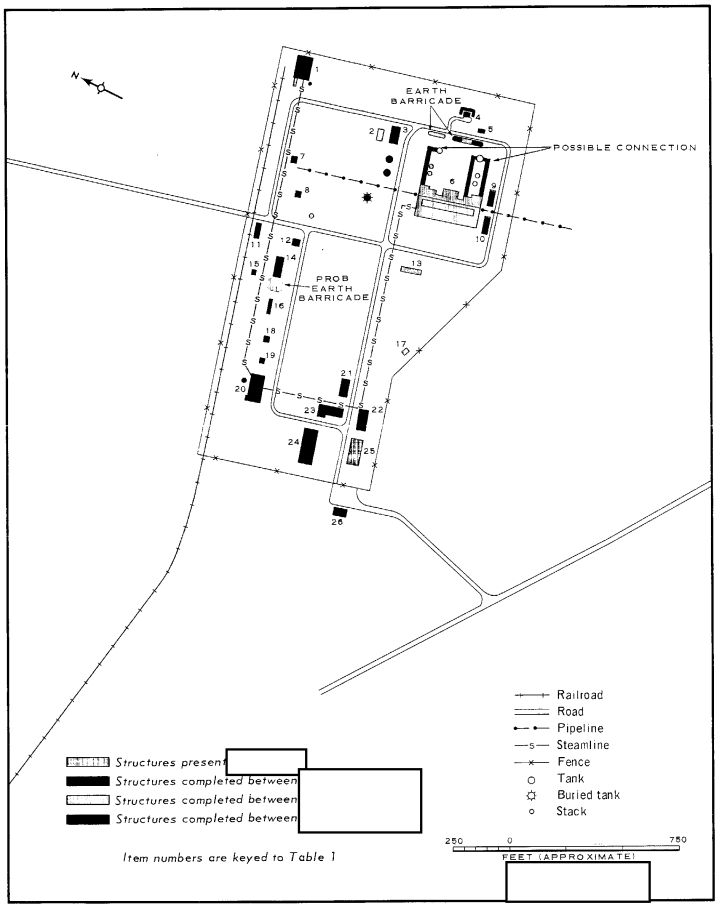

FIGURE 3. LAYOUT OF THE ZELENOGORSK STATIC TEST FACILITY

Table 1. Functions, Dimensions, and Chronology of Structures in the Zelenogorsk Static Test Facility
(Item numbers are keyed to Figure 3)

Item No	Function/ Description	Dimensions (ft) L	W	H	Roof Cover (sq ft)	Explanatory Notes
1	Support bldg					Stack adjacent to bldg
2	Storage bldg					
3	Storage bldg					
4	Revetted storage bldg	20	15	--	300	Revetted bldg is road served
5	Storage bldg*	--	--	--	--	
6	Horizontal test bldg					No blast marks have been observed at this bldg; height of bldg varies from
7	Storage bldg	35	25	--	875	
8	Storage bldg	20	20	--	400	
9	Support bldg	66	30	--	1,800	Adjacent to item 6
10	Support bldg	70	30	--	2,100	Adjacent to item 6
11	Storage bldg					Prob in support of item 14
12	Storage bldg	25	25	--	625	Prob in support of item 14
13	Storage/processing bldg					
14	Poss horizontal test bldg					No blast marks have been observed at this bldg
15	Storage bldg	20	15	--	300	Item 14 prob U-shaped earthen barricade near W edge of bldg
16	Storage bldg					
17	Storage/utility bldg	20	15	--	300	
18	Utility bldg					
19	Utility bldg	20	20	--	400	
20	Powerplant/steamplant					Stack adjacent to bldg
21	Storage/utility bldg	70	30	--	2,100	
22	Support bldg					
23	Prob assembly/fabrication bldg					
24	Large production bldg	160	60	--	9,600	
25	Maintenance/vehicle bldg					
26	Security gatehouse					

*Poor interpretability precluded mensuration.

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yearly increases in the square footage of roof cover is presented in Table 2. The remainder of this report consists of a description of the facility, followed by highlights of its chronological development presented in narrative form.

DESCRIPTION

The Zelenogorsk facility contains a horizontal test building (item 6, Figure 3) and a possible horizontal test building (item 14). The larger of these 2 buildings (item 6), located in the southeast section of the facility, is similar to test buildings found at Ufa, Nizhnyaya Salda, and Paustovo in the USSR. The test building at Zelenogorsk differs in design in that it has 3 possible diffusers/exhausters extending from the test cells; these possible diffusers/exhausters possibly terminate at 2 vertical stacks as shown in a perspective drawing, Figure 4. In addition, there are overhead pipelines/conduits extending from the north and south sides of the test building.

The possible horizontal test building (item 14) is a rectangular-shaped structure with a [redacted] near the west edge of the building. This possible test cell building could possibly be used to test small rocket motors, liquid propellants,

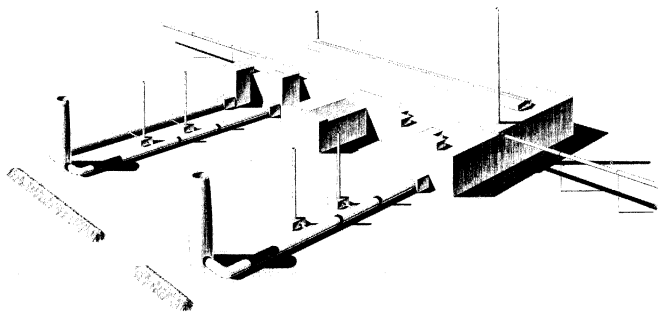

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FIGURE 4. PERSPECTIVE DRAWING OF THE HORIZONTAL TEST BUILDING (Item 6, Figure 3). Dashlines indicate possible connections of diffusers/exhausters with the stacks.

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or small rocket engine components. Other features at this installation are numerous support/storage buildings, a powerplant/steamplant, and several buried tanks.

Whether this facility is engaged in the same type of test program as the Ufa, Nizhnyaya Salda, and Faustovo facilities cannot be confirmed at this time. All of these facilities could be developing and testing the same type of equipment, as suggested by the similarity of the test buildings. Conceivably, however, each of these facilities could be used to develop and test such diverse products as rocket engines, gas generators, pump systems, and fuels.

HIGHLIGHTS OF CHRONOLOGICAL DEVELOPMENT

1956

This facility was not present in 1956 when [redacted] coverage of the area was obtained. However, the all-weather road which now serves the installation was in the late stages of construction in [redacted]

1961

The static test facility was first observed as a recognizable facility in [redacted] on [redacted] photography of poor interpretability. At that time the large horizontal test building (item 6), a storage/processing building (item 13), and a maintenance/vehicle building (item 25) were discernible. The overhead pipelines/conduits extending from the large horizontal test building and the security fence were also present.

1963

The improved interpretability of [redacted] photography of [redacted] permitted probable identifications of structures. The possible horizontal test building (item 14) was observed; however, the probable earthen barricade immediately west of that building was not present. Many other structures were also present, including a powerplant/steamplant (item 20), a probable assembly/fabrication building (item 23), a security gatehouse (item 26), and various storage buildings and utility/support buildings.

1964

Very few additional buildings were observed in 1964. The probable earthen barricade located west of the possible test building (item 14) was observed for the first time.

1965-1967

The best photographic coverage during this period was obtained in [redacted] Two small storage buildings were the only discernible additions to the installation from 1965 through 1967.

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REFERENCES

[redacted]

MAPS OR CHARTS

ACIC Series, scale 1:200,000

REQUIREMENT

CIA, C-DI5-82,973

NPIC PROJECT

I1212CP/66